

WHAT IS CLAIMED IS:

1. A television signal receiving apparatus for receiving television signals including broadcast data signals, comprising:

receiver means for receiving the broadcast data signals;

output means for outputting the broadcast data signals, received by said receiver means, to a display device, wherein said display device displays an image including characters and/or pictures generated from the broadcast data signals;

communication means for communicating with an external device connected thereto; and

control means for controlling the image to be displayed on said display device in accordance with results of communication by said communication means.

2. An apparatus according to claim 1, wherein the data of the broadcast data signals includes display control data for use by said control means to modify the image displayed on said display device.

3. An apparatus according to claim 2, wherein the display control data comprises display layout information of

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the image to be displayed on said display device and script information for displaying the image on said display device.

4. An apparatus according to claim 3, wherein the script information is associated with the results of communication, and

wherein said control means performs control to select the script information responsive to the results of communication and to perform a display process represented by the script information.

5. An apparatus according to claim 1, wherein said control means controls the output means so that a portion of the broadcast data signals is selectively output to said display device in response to the results of communication.

6. An apparatus according to claim 1, wherein the data of the broadcast data signals includes at least one of moving-picture data, still-picture data, audio data, character data, and control command data.

7. An apparatus according to claim 6, wherein the character data is described in a markup language, and includes display layout information of the image displayed on said display device, and script information for

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displaying the image on said display device.

8. An apparatus according to claim 1, wherein said communication means communicates with said external device in compliance with the IEEE1394 Standard.

9. An apparatus according to claim 1, wherein said control means starts controlling said display device based on a notification from said communication means notifying that said external device has been connected thereto and has started communications.

10. An apparatus according to claim 1, wherein said control means controls said communication means to transmit a command querying the status of said external device, and controls said display device so that the displayed image is changed in response to data from said external device.

11. An apparatus according to claim 1, wherein said control means controls said display device so that the image displayed on said display device is changed in response to an event content of an event command received from said external device through the communication means.

12. An apparatus according to claim 1, wherein said

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13. A television signal receiving apparatus for receiving television signals including broadcast data signals, comprising:

display means for displaying a plurality of images including an image relating to the broadcast data signals received from said receiver means;

display control means for monitoring a status of said printer device and for changing a display content to be presented on said display means in accordance with the status of said printer device.

15. An apparatus according to claim 14, wherein the character data is described in a markup language, and

includes display layout information of an image to be displayed on said display device, print layout information of an image to be printed out on said printer device, and script information for displaying the image on said display device.

16. An apparatus according to claim 14, wherein said display control means monitors states of said printer device including, at least, one of a printing state, a print halted state, and an error state, and controls said display means so as to display at least one of the character data, the still-picture data, and the moving-picture data in response to the states.

17. An apparatus according to claim 13, further comprising communication means for communicating with said printer device, wherein said communication means communicates with said printer device in compliance with the IEEE1394 Standard.

18. A broadcast data receiving and reproducing apparatus for receiving broadcast data and for presenting a variety of displays of data including the broadcast data, comprising:

print data output means for forming print data based on

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information and display layout information, said print data output means forms the print data based on the print layout information, and said display control means generates the display data based on the display layout information.

21. An apparatus according to claim 18, wherein said control means controls said apparatus so as to execute the script in response to a communication command reporting, output from said printer device to said communication means, based on a status of said printer device.

22. An apparatus according to claim 21, wherein said communication command reporting includes at least one of a print completed state, a print halted state, and an error state of the printer device.

23. An apparatus according to claim 18, wherein said control means start controlling of execution of the script in response to a notification from said communication means notifying that said printer device has been connected thereto and has started communication.

24. An apparatus according to claim 18, wherein the broadcast data includes information associating a status of said printer device with the script.

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25. An apparatus according to claim 18, wherein said communication means communicates with the printer device in compliance with said IEEE1394 Standard.

26. A television signal receiving method for receiving television signals including broadcast data signals, comprising the steps of:

- receiving the broadcast data signals;
- outputting the broadcast data signals received in the receiving step to a display device, wherein the display device displays an image including characters and/or pictures generated from the broadcast data signals;
- communicating with an external device connected thereto; and
- performing controlled modification of the image to be displayed on the display device in accordance with results of communication in the communication step.

27. A method according to claim 26, wherein the data represented by the broadcast data signals includes display control data for use in modifying the image to be displayed on the display device in the control step.

28. A method according to claim 27, wherein the

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wherein said control step performs control to select the script information responsive to the results of communication and to perform a display process responsive to the script information.

30. A method according to claim 26, wherein said control step controls the output step so that a portion of the broadcast data signals is selectively output to the display device in response to the results of communication.

31. A method according to claim 26, wherein the data of the broadcast data signals includes at least one of moving-picture data, still-picture data, audio data, character data, and control command data.

32. A method according to claim 26, wherein the character data is described in a markup language, and includes display layout information of the image displayed

on the display device, and script information for displaying the image on the display device.

33. A method according to claim 26, wherein said communication step communicates with the external device in compliance with the IEEE1394 Standard.

34. A method according to claim 26, wherein said control step starts controlling the display device based on a notification in the communication step notifying that the external device has been connected thereto and has started communication.

35. A method according to claim 26, wherein said control step controls the communication step to transmit a command querying the status of the external device, and controls the display device so that the displayed image is changed in response to data from the external device.

36. A method according to claim 26, wherein said control step controls the display device so that the image displayed on the display device is changed in response to an event content of an event command that is received from the external device in the communication step.

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37. A method according to claim 26, wherein the external device comprises a printer device.

38. A broadcast data receiving and reproducing system comprising a broadcast data receiving and reproducing apparatus for receiving broadcast data and for presenting a variety of displays of data including the broadcast data, and an external device with which the broadcast data receiving and reproducing apparatus communicates,

wherein the broadcast data receiving and reproducing apparatus comprises:

receiver means for receiving data broadcasting radio waves,

acquisition means for acquiring at least one of moving-picture data, audio data, still-picture data, and character data multiplexed on the data broadcasting radio waves,

display means for displaying a variety of displays including the data acquired by the acquisition means,

communication means for communicating with the external device, and

display control means for controlling said display means to change the display content on said display means based on results of communications with said external device.

39. A broadcast data receiving and reproducing system

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comprising a broadcast data receiving and reproducing apparatus for receiving broadcast data and for presenting a variety of displays of data including the broadcast data, and a printer device with which the broadcast data receiving and reproducing apparatus communicates,

wherein the broadcast data receiving and reproducing apparatus comprises:

receiver means for receiving data broadcasting radio waves,

acquisition means for acquiring at least one of moving-picture data, audio data, still-picture data, and character data multiplexed on the data broadcasting radio waves,

display means for displaying a variety of displays including the data acquired by said acquisition means,

communication means for communicating with said printer device,

print data output means for forming print data based on stored data, and outputting the print data to said printer device, and

display control means which monitors the status of said printer device, and changes the display content on said display means based on a state of said printer device.

40. A television signal receiving apparatus for receiving broadcast television signals including data

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a receiver;

a display device in communication with said receiver by a signal outputter;

a communicator connected to an external device; and

a controller in communication with said communicator, wherein said receiver receives the data signals, said outputter outputs the data signals, received by said receiver, to said display device, said display device displays an image including characters and/or pictures generated from the data signals, and said controller controls the image to be displayed on said display device in accordance with results of communication with said communicator.